



SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier T-Mulz® D6PE-KS

OTHER MEANS OF IDENTIFICATION
SDS NUMBER 320350-01

RECOMMENDED USE Anionic surfactant.

RECOMMENDED RESTRICTIONS None known.

MANUFACTURER, IMPORTER, SUPPLIER, DISTRIBUTOR INFORMATION
MANUFACTURER

Company name HARCROS CHEMICALS INC
Address 5200 Speaker Rd.
KANSAS CITY, KS 66106
UNITED STATES

Telephone Main Telephone Number 1-913-321-3131

WEBSITE WWW.HARCROS.COM

E-MAIL custserv@harcros.com

EMERGENCY PHONE NUMBER CHEMTREC 1-800-424-9300
CHEMTREC 1-703-527-3887 (call collect)

2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified.

Health hazards Skin corrosion/irritation CATEGORY 2
Serious eye damage/eye irritation CATEGORY 2

Environmental hazards NOT CLASSIFIED.

OSHA defined hazards Combustible dust NOT APPLICABLE
Pyrophoric gas NOT APPLICABLE
Simple asphyxiant NOT APPLICABLE

Label Elements



Signal word Warning

Hazard statement Causes skin irritation. Causes serious eye irritation.

Precautionary statement

Prevention Wash hands thoroughly after handling. Wear protective gloves. Wear eye/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) NONE KNOWN.

Supplemental information None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS NUMBER	%%
Alkyl phosphate ethoxylate, potassium salt*		PROPRIETARY*	40 - < 50
Propylene Glycol		57-55-6	20 - < 30
OTHER COMPONENTS BELOW REPORTABLE LEVELS			30 - < 40

*DESIGNATES THAT A SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
SKIN CONTACT	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
EYE CONTACT	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
INGESTION	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. SKIN IRRITATION. MAY cause redness and pain.
INDICATION OF IMMEDIATE MEDICAL attention and special treatment needed	PROVIDE GENERAL SUPPORTIVE MEASURES AND TREAT SYMPTOMATICALLY. KEEP VICTIM UNDER OBSERVATION. Symptoms may be delayed.
GENERAL INFORMATION	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
UNSUITABLE EXTINGUISHING MEDIA	Do not use water jet as an extinguisher, as this will spread the fire.
SPECIFIC HAZARDS ARISING FROM the chemical	During fire, gases hazardous to health may be formed.
SPECIAL PROTECTIVE EQUIPMENT and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	MOVE CONTAINERS FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK.
SPECIFIC METHODS	Use standard firefighting procedures and consider the hazards of other involved materials.
GENERAL FIRE HAZARDS	No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. KEEP OUT OF low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

This product is miscible in water.

LARGE SPILLS: STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. DIKE THE SPILLED MATERIAL, WHERE THIS IS POSSIBLE. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

SMALL SPILLS: WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

NEVER RETURN SPILLS TO ORIGINAL CONTAINERS FOR RE-USE. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS.

ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

US. AIHA WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WHEEL) GUIDES

Components	Type	VALUE	Form
Propylene Glycol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

BIOLOGICAL LIMIT VALUES

No biological exposure limits noted for the ingredient(s).

APPROPRIATE ENGINEERING CONTROLS

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Wear chemical goggles. Avoid contact with eyes. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

HAND PROTECTION

Wear appropriate chemical resistant gloves.

SKIN PROTECTION

OTHER

Wear appropriate chemical resistant clothing.

RESPIRATORY PROTECTION

In case of insufficient ventilation, wear suitable respiratory equipment.

THERMAL HAZARDS

Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE CONSIDERATIONS

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear.

PHYSICAL STATE

Liquid.

FORM

Liquid.

COLOR

Pale yellow.

ODOR

Mild.

BOILING POINT	Not available.
PH	Not available.
MELTING POINT/FREEZING POINT	Not available.
INITIAL BOILING POINT AND BOILING RANGE	Not available.
FLASH POINT	> 212.0 °F (> 100.0 °C) Pensky-Martens Closed Cup
EVAPORATION RATE	Not available.
FLAMMABILITY (SOLID, GAS)	Not available.
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	
FLAMMABILITY LIMIT - LOWER (%)	Not available.
FLAMMABILITY LIMIT - UPPER (%)	Not available.
EXPLOSIVE LIMIT - LOWER (%)	Not available.
EXPLOSIVE LIMIT - UPPER (%)	Not available.
VAPOR PRESSURE	Not available.
VAPOR DENSITY	Not available.
RELATIVE DENSITY	Not available.
SOLUBILITY (IES)	
SOLUBILITY (WATER)	Soluble.
PARTITION COEFFICIENT (n-octanol/water)	NOT AVAILABLE.
AUTO-IGNITION TEMPERATURE	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VISCOSITY	Not available.
OTHER INFORMATION	
PH IN AQUEOUS SOLUTION	7.5 - 9 (2% in DI Water)
SPECIFIC GRAVITY	1.02

10. Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
CHEMICAL STABILITY	Material is stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.
CONDITIONS TO AVOID	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
INCOMPATIBLE MATERIALS	Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Inorganic acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides. Organic compounds which may be toxic.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE	
INGESTION	Expected to be a low ingestion hazard.
INHALATION	Prolonged inhalation may be harmful.
SKIN CONTACT	Causes skin irritation.
EYE CONTACT	Causes serious eye irritation.
SYMPTOMS RELATED TO THE physical, chemical and TOXICOLOGICAL CHARACTERISTICS	SKIN IRRITATION. SYMPTOMS MAY INCLUDE STINGING, TEARING, REDNESS, SWELLING, AND BLURRED VISION. MAY cause redness and pain.

INFORMATION ON TOXICOLOGICAL EFFECTS**ACUTE TOXICITY**

Product	Species	TEST RESULTS
T-MUZ® D6PE-KS (CAS MIXTURE)		
ACUTE		
ORAL		
LD50	Dog	76 G/KG ESTIMATED
	GUINEA PIG	73.6 g/kg estimated
	MOUSE	95.6 g/kg estimated
	RABBIT	72 g/kg estimated
	RAT	120 g/kg estimated
OTHER		
LD50	Mouse	26520 MG/KG ESTIMATED
	RAT	25692 mg/kg estimated

Components	Species	TEST RESULTS
PROPYLENE GLYCOL (CAS 57-55-6)		
ACUTE		
ORAL		
LD50	Dog	19 G/KG
	GUINEA PIG	18.4 g/kg
	MOUSE	23.9 g/kg
	RABBIT	18 g/kg
	RAT	30 g/kg

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

SKIN CORROSION/IRRITATION	Causes skin irritation.
SERIOUS EYE DAMAGE/EYE IRRITATION	CAUSES SERIOUS EYE IRRITATION.
RESPIRATORY OR SKIN SENSITIZATION	
RESPIRATORY SENSITIZATION	Not available.
SKIN SENSITIZATION	This product is not expected to cause skin sensitization.
GERM CELL MUTAGENICITY	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
CARCINOGENICITY	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA SPECIALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)	
	NOT LISTED.
REPRODUCTIVE TOXICITY	This product is not expected to cause reproductive or developmental effects.
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	NOT CLASSIFIED.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	NOT CLASSIFIED.
ASPIRATION HAZARD	Not available.
CHRONIC EFFECTS	Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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PRODUCT	Species	Test Results
T-MUZ® D6PE-KS (CAS MIXTURE)		
AQUATIC		
Crustacea EC50	Daphnia	40000 mg/l, 48 hours estimated
COMPONENTS	Species	Test Results
PROPYLENE GLYCOL (CAS 57-55-6)		
AQUATIC		
Crustacea EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish LC50	Fathead minnow (Pimephales promelas)	710 mg/l, 96 hours

* ESTIMATES FOR PRODUCT MAY BE BASED ON ADDITIONAL COMPONENT DATA NOT SHOWN.

PERSISTENCE AND DEGRADABILITY	No data is available on the degradability of this product.
BIOACCUMULATIVE POTENTIAL	No data available.
PARTITION COEFFICIENT N-OCTANOL/WATER (log K_{OW})	
PROPYLENE GLYCOL	-0.92
MOBILITY IN SOIL	No data available.
OTHER ADVERSE EFFECTS	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation POTENTIAL, ENDOCRINE DISRUPTION, GLOBAL WARMING POTENTIAL) ARE EXPECTED FROM THIS COMPONENT

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
LOCAL DISPOSAL REGULATIONS	Dispose in accordance with all applicable regulations.
HAZARDOUS WASTE CODE	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
WASTE FROM RESIDUES / UNUSED PRODUCTS	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: DISPOSAL INSTRUCTIONS).
CONTAMINATED PACKAGING	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT	NOT REGULATED AS DANGEROUS GOODS.
IATA	NOT REGULATED AS DANGEROUS GOODS.
IMDG	NOT REGULATED AS DANGEROUS GOODS.

15. REGULATORY INFORMATION

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUPP. D)	NOT REGULATED.
CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)	NOT LISTED.
SARA 304 EMERGENCY RELEASE NOTIFICATION	NOT REGULATED.

OSHA SPECIALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1056)

NOT LISTED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard Categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
PRESSURE HAZARD - NO
Reactivity Hazard - No

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE

NOT LISTED.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI Reporting)

Not regulated.

OTHER FEDERAL REGULATIONS

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPS) LIST

NOT REGULATED.

CLEAN AIR ACT (CAA) SECTION 112(F) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130)

NOT REGULATED.

SAFE DRINKING WATER ACT (SDWA) Not regulated.

US STATE REGULATIONS

U.S. MASSACHUSETTS RTK - SUBSTANCE LIST

NOT REGULATED.

U.S. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT

PROPYLENE GLYCOL (CAS 57-55-6)

U.S. Pennsylvania Worker and Community Right-to-Know Law

PROPYLENE GLYCOL (CAS 57-55-6)

U.S. Rhode Island RTK

NOT REGULATED.

U.S. CALIFORNIA PROPOSITION 65

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65): THIS MATERIAL IS NOT KNOWN TO CONTAIN any chemicals currently listed as carcinogens or reproductive toxins.

INTERNATIONAL INVENTORIES

Table with 3 columns: COUNTRY(S) OR REGION, Inventory name, On inventory (yes/no)*. Rows include Australia, Canada, China, Europe, Japan, Korea, New Zealand, and Philippines.

COUNTRY(S) OR REGION	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING COUNTRY(S)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR REVISION

Issue date 07-11-2014

Version # 01

HMIS RATING
Health: 2
Flammability: 1
Physical hazard: 0

NFPA RATING
Health: 2
Flammability: 1
Instability: 0

DISCLAIMER
The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Harcros Chemicals Inc., provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Harcros Chemicals Inc., knows of no medical condition, other than those noted on this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.

REVISION INFORMATION
Product and Company Identification: Product and Company Identification
Hazard(s) identification: <INDENT>Prevention
Composition / Information on Ingredients: Ingredients
Handling and storage: Precautions for safe handling
Physical & Chemical Properties: Multiple Properties
REGULATORY INFORMATION: UNITED STATES